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TRANSMITTAL LETTER TO THE UNITED  
STATES DESIGNATED/ELECTED OFFICE  
(DO/EO/US) CONCERNING A FILING  
UNDER 35 U.S.C. 371

31 May 2005

Attorney Docket No.  
0380-P03627US0

U.S. Application No. (If Known)  
Not yet assigned 10/537258

Express Mail Label No.:  
EV374764423US

Int'l Application No.  
PCT/GB2003/005239

Int'l Filing Date  
1 December 2003

Priority Date Claimed  
2 December 2002

TITLE OF INVENTION  
Fish Disease Models and Uses Thereof

Applicant(s) for DO/EO/US  
GOLDSMITH, Paul; FLEMING, Angeleen, Louise; RICHARDS, Andrew, John, McGlashan; JONES, Derek, Thomas, Edward; HARRIS, William, Anthony

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

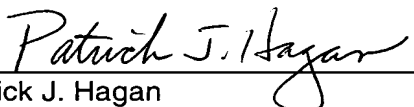
**Items 11 to 20 below concern document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
  - Certificate of Mailing by Express Mail Under 37 C.F.R. §1.10
  - Copy of Form PCT/IB/308
  - Check in the amount of \$2,250

U.S. Application No. Not yet assigned		International Application No. PCT/GB2003/005239		Docket No. 0380-P03627US00	
The following fees are submitted:				JC17 Rec'd PCT/PTO 31 MAY 2005	
21. [X] BASIC NATIONAL FEE .....		\$300	\$300		
22. [X] Examination Fee If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....		\$100	\$200		
All other situations .....		\$200			
23. [X] Search Fee Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as a International Searching Authority. ....		\$100			
International Search Report prepared by International Search Authority other than USPTO, but provided to Office by Applicant(s) .....		\$400	\$500		
All other situations .....		\$500			
Total of 21, 22, 23			\$1,000		
[ ] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program filed in an electronic medium). Total Sheets      Extra Sheets      No. of each add'l 50 (round up to whole number) -100 =                      /50 =                      x \$250			\$0		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date			\$0		
Claims	Number Filed	Number Extra	Rate		
Total Claims	41 -20 =	21	50	\$1,050	
Independent Claims	4 -3 =	1	200	\$200	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360		
<b>TOTAL OF ABOVE CALCULATIONS</b>			\$2,250		
[ ] Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½					
<b>SUBTOTAL =</b>			\$2,250		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f))			\$0		
<b>TOTAL NATIONAL FEE =</b>			\$2,250		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property			\$0		
<b>TOTAL FEES ENCLOSED =</b>			\$2,250		

- a. [X] A check in the amount of \$2,250 to cover the above fees is enclosed
- b. [ ] Please surcharge Deposit Account No. 04-1406 in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit  
any overpayment to Deposit Account No. 04-1406. A duplicate copy of this sheet is enclosed.

SEND ALL CORRESPONDENCE TO: **CUSTOMER NUMBER 000110** to the attention of the individual listed below.

  
Patrick J. Hagan  
Registration No. 27,643

1537258  
JC17 Rec'd PCT/PTO 31 MAY 2005

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**CERTIFICATE OF MAILING  
BY EXPRESS MAIL UNDER 37 C.F.R. \$1.10**

NUMBER OF EXPRESS MAIL MAILING LABEL: EV374764423US  
DATE OF DEPOSIT WITH POSTAL SERVICE: May 31, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. \$1.10 on the date indicated above, and is addressed to the COMMISSIONER OF PATENTS, P.O. Box 1450, Alexandria, VA 22313-1450.

Caren Burgoon

Typed Name of Person Mailing Paper or Fee

Caren Burgoon

Signature of Person Mailing Paper or Fee

Re: New Patent Application  
(National Phase of International  
Patent Application No. PCT/GB2003/005239  
Entitled: FISH DISEASE MODELS AND USES THEREOF  
International Filing Date: 1 December 2003  
Earliest Claimed Priority Date: 2 December 2002  
Our File No. 0380-P03627US0

**Enclosures:**

- Transmittal Letter to the DO/EO/US Concerning a Filing Under 35 U.S.C. §371 (in duplicate)
- First Preliminary Amendment
- Copy of Form PCT/IB/308
- Check in the amount of \$2,250